

## Summary

A fuel injector (1), in particular for the direct injection of fuel into a combustion chamber of an internal combustion engine, having a valve-closure member (4) which cooperates with a valve-seat surface (6) formed on a valve-seat body (5), to form a sealing seat, includes at least one spray-discharge orifice (7) provided downstream from the sealing seat. The spray-discharge orifice (7) has a guide region (38) and an exit region (39) arranged at its discharge-side end. The exit region (39) widens in a stepped manner by at least one first step (41) and/or at least in part continuously beginning with a transition (40) from the guide region (38) into the exit region (39). A fuel jet (42) which emerges from the guide region (38) at the transition (40) and widens essentially uniformly at a jet angle (46), passes a discharge-side end (43) of the exit region (39) with a gap dimension (47) of a gap (44) after a distance  $s$ , the gap dimension (47) being greater than zero and a first volume (45) remaining in the exit region (39) between the fuel jet (42) and the inner walls of the exit region (39).

(Figure 2)